

CLAIMS

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- 1 1. A method of creating a graphical human-machine interface, comprising the steps of:
 - 2 (a) providing a computer using a first operating system;
 - 3 (b) providing a portable computing device in communication with the computer,
 - 4 the portable computing device using a second operating system that is less
 - 5 capable than the first operating system;
 - 6 (c) generating on the computer a graphical human-machine interface operable on
 - 7 the portable computing device; and
 - 8 (d) transferring the graphical human-machine interface from the computer to the
 - 9 portable computing device.
 - 1 2. The method of claim 1 further comprising, after step (c), the step of simulating on the
 - 2 computer the operation of the graphical human-machine interface on the portable
 - 3 computing device.
 - 1 3. The method of claim 1 further comprising the steps of:
 - 2 (e) operating the graphical human-machine interface on the portable computing
 - 3 device; and
 - 4 (f) transmitting between the computer and the portable computing device
 - 5 information related to the operation of the graphical human-machine
 - 6 interface.
 - 1 4. The method of claim 1 wherein the graphical the human-machine interface is adapted
 - 2 to control at least one process parameter.
 - 1 5. The method of claim 1 wherein step (c) comprises generating on the computer a
 - 2 graphical human-machine interface operable on the portable computing device, the
 - 3 graphical human-machine interface comprising a processor-independent graphical
 - 4 human-machine interface object and a provided run-time engine specific to a selected
 - 5 processor present on the portable computing device.

1 6. The method of claim 1 wherein the second operating system is Windows CE.

1 7. The method of claim 1 wherein the portable computing device is a handheld portable
2 computing device.

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A2

1 8. A computer program recorded on a machine-readable medium, comprising:

2 (a) a module that operates on a computer to allow a user of the computer to
3 generate a graphical human-machine interface that is operable on a portable
4 computing device, the computer uses a first operating system and the portable
5 computing device uses a second operating system having less capability than
6 the first operating system;

7 (b) a module that operates on the computer to simulate the operation of the
8 graphical human-machine interface on the portable computing device; and

9 (c) a module that operates on the computer to transfer, from the computer to the
10 portable computing device, the graphical human-machine interface.

Sub
A3

1 9. The computer program of claim 8, further comprising:

2 (d) a module that operates on the computer to transfer, between the computer and
3 the portable computing device, information related to the operation of the
4 human-machine interface.

1 10. The computer program of claim 8 wherein the graphical human-machine interface
2 comprises a graphical human-machine interface for process control.

Sub
A3

1 11. The computer program of claim 8 wherein the graphical human-machine interface
2 comprises a processor-independent graphical human-machine interface object and a
3 run-time engine specific to a selected processor.

1 12. The computer program of claim 8 wherein the second operating system is Windows
2 CE.

1 13. The computer program of claim 8 wherein the portable computing device is a
2 handheld portable computing device.

1 14. A method of controlling a process, comprising the steps of:

- 2 (a) providing a computer using a first operating system;
- 3 (b) providing a portable computing device in communication with the computer,
- 4 the portable computing device using a second operating system that is less
- 5 capable than the first operating system;
- 6 (c) providing a graphical human-machine interface operable on the portable
- 7 computing device, the graphical human-machine interface generated on the
- 8 computer;
- 9 (d) operating the graphical human-machine interface on the portable computing
- 10 device; and
- 11 (e) exchanging information between the computer and the portable computing
- 12 device, so as to control at least one parameter of a process.

1 15. The method of claim 14 wherein step (d) comprises operating the graphical human-
2 machine interface on the portable computing device to display both graphical
3 information and alphanumeric information.

1 16. The method of claim 14 wherein the second operating system is Windows CE.

1 17. The method of claim 14 wherein the portable computing device is a handheld
2 portable computing device.